

APPENDIX B

**TEXAS WATER COMMISSION
NOTICE OF REGISTRATION**

5-16-91

DW0550

TEXAS WATER COMMISSION
NOTICE OF REGISTRATION
SOLID WASTE MANAGEMENT

05-16-91

THIS IS NOT A PERMIT AND DOES NOT CONSTITUTE AUTHORIZATION OF ANY WASTE MANAGEMENT ACTIVITIES OR FACILITIES LISTED BELOW. REQUIREMENTS FOR SOLID WASTE MANAGEMENT ARE PROVIDED BY TEXAS ADMINISTRATIVE CODE SECTION 335 OF THE RULES OF THE TEXAS WATER COMMISSION (TWC). CHANGES OR ADDITIONS TO WASTE MANAGEMENT METHODS REFERRED TO IN THIS NOTICE REQUIRE WRITTEN NOTIFICATION TO THE TWC.

DATE OF NOTICE: 04-26-91

REGISTRATION DATE: 01-29-79

REGISTRATION NUMBER: 31424

EPA I.D. NUMBER: TXD000807909

THE REGISTRATION NUMBER PROVIDES ACCESS TO STORED INFORMATION PERTAINING TO YOUR OPERATION. PLEASE REFER TO THAT NUMBER IN ANY CORRESPONDENCE.

COMPANY NAME: MOBIL CHEMICAL COMPANY

MAILING ADDRESS: PE PLANT

P O BOX 2295

BEAUMONT, TEXAS

77704

GENERATING SITE LOCATION:

NORTH OF U.S. HWY 90, 7 MILES WEST OF BEAUMONT

CONTACT PERSON: DONNA M. SMITH

PHONE: (409) 860-2168

NUMBER OF EMPLOYEES: GREATER THAN 100

TWC DISTRICT: 06

REGISTRATION STATUS: ACTIVE

REGISTRATION TYPE: GENERATOR

HAZARDOUS WASTE STATUS:

GENERATOR

I. WASTE GENERATED:

WASTE NUMBER	DESCRIPTION	CLASS	CODE	DISPOSITION
001	PLANT REFUSE, GENERAL MISC.	11	279760	ON-SITE/OFF-SITE
002	TRICHLOROETHANE OR TETRACHLORO ETHANE	1H	910200	ON-SITE/OFF-SITE
EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): F001, D001				
003	ACID, SULFURIC, MERCURY CONTAI NING	1H	901990	ON-SITE/OFF-SITE

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): D009, D002, D011, D006, D007, D010

004	OIL, WASTE	II	210450	ON-SITE/OFF-SITE/ SECONDARY USE
005	WAX	II	280610	ON-SITE/OFF-SITE
006	LAB WASTE, ORGANIC LIQUID	IH	910590	ON-SITE/OFF-SITE

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): D001, D002, D003, F003, F005

007	WATER TREATMENT SLUDGE	II	240150	ON-SITE/OFF-SITE
008	DESSICANT	III	370960	ON-SITE/OFF-SITE
009	WASTEWATER, INDUSTRIAL PROCESS (DOMESTIC-INDUSTRIAL GRADE)	I	100710	NO LONGER GENERATED
010	WAX	IH	980610	ON-SITE/OFF-SITE

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): D001, F003

011	WATER TREATMENT CHEMICALS	II	213140	ON-SITE/OFF-SITE
012	METHANOL	IH	911080	NO LONGER GENERATED

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): D001

013	PROPENE ALDEHYDE (21% H2O SOLUBLE)	IH	912000	NO LONGER GENERATED
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EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): D001, D003

014	GASOLINE, CONTAMINATED	IH	912600	NO LONGER GENERATED
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EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): D001

015	SOLVENTS, HALOGENATED	IH	911150	ON-SITE/OFF-SITE
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EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): F001, F002, F003, F005

016	SOLVENTS, NON-HALOGENATED	IH	913860	ON-SITE/OFF-SITE
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EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): F003, D001

017	CATALYST, SILICA GEL, CONTAINING CHROMIUM	IH	972240	ON-SITE/OFF-SITE
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EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): D007

018 SOLVENTS CONTAINING ALUMINUM A 1H 917270 ON-SITE/OFF-SITE
LKYL- PYROPHORIC

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): D001, D003

019 ACETONITRILE (METHYL CYANIDE) 1H 912830 ON-SITE/OFF-SITE

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): D001, D003

020 PLANT WASTES, CONTAMINATED I 175500 ON-SITE/OFF-SITE

021 CORROSIVE WASTES 1H 902880 ON-SITE/OFF-SITE/SOL
D FOR RECOVERY

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): D002

022 OIL, WASTE 1H 910450 ON-SITE/OFF-SITE/SOL
D FOR RECOVERY

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): D001

023 ETHYLENE GLYCOL I 110250 ON-SITE/OFF-SITE

024 DESSICANT 1H 970960 ON-SITE/OFF-SITE

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): D002

025 MONOMER, WASTE 1H 911450 NO LONGER GENERATED

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): D001

026 CLEANING SOLUTION, ACID AND/OR 1H 901110 ON-SITE/OFF-SITE
CAUSTIC

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): D002

027 PROCESSING CHEMICAL ADDITIVES, I 103160 ON-SITE/OFF-SITE
MISC

028 TETRAHYDROFURAN 1H 910950 NO LONGER GENERATED

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): D001

029 ETHYL ALCOHOL 1H 915310 NO LONGER GENERATED

REGISTRATION NUMBER: 51424
COMPANY NAME: MOBIL CHEMICAL COMPANY

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): D001

030 PROCESSING CHEMICAL ADDITIVES, IH 903160 ON-SITE/OFF-SITE
MISC

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): D003, D002

031 OIL AND SOLVENT, IN WATER IH 908560 ON-SITE/OFF-SITE/SOL
D FOR RECOVERY

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): F001, D001

032 LAB WASTE, LIQUID IH 907050 ON-SITE/OFF-SITE

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): D001, F003

033 METAL SCRAP II 270350 ON-SITE/OFF-SITE/SOL
D FOR RECOVERY

034 NAPHTHA IH 910020 ON-SITE/OFF-SITE/SOL
D FOR RECOVERY

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): D001

035 FUEL IH 917070 ON-SITE/OFF-SITE

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): D001, D003, F003

036 ASBESTOS, GASKET CUTTINGS AND I 173090 ON-SITE/OFF-SITE
INSULATION CONTAINING

037 BATTERIES, LITHIUM IH 976810 ON-SITE/OFF-SITE

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): D001, D002, D003

038 PAINT AND SOLVENTS IH 916940 ON-SITE/OFF-SITE

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): D001, D007, D008, F003, F005

039 CATALYST AND SOLVENT IH 919080 ON-SITE/OFF-SITE

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): D001, D002, D007, F003, F005

040 RAGS, CONTAMINATED IH 983480 ON-SITE/OFF-SITE

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): F001

041	PCB CAPACITOR	I	173880	ON-SITE/OFF-SITE
042	PCB TRANSFORMER OIL	I	116080	ON-SITE/OFF-SITE
043	CONSTRUCTION DEBRIS AND NON-CO MBUSTIBLE WASTE	II	270510	ON-SITE/OFF-SITE
044	SOIL, HYDROCARBON CONTAMINATED	II	279360	ON-SITE/OFF-SITE
045	CONTAINERS, EMPTY AND RENDERED UNUSABLE	II	270508	OFF-SITE

11. Shipping/Reporting: Pursuant to Section 335 of the Texas Administrative Code of the rules of the TWC pertaining to Hazardous Waste management, issuance of manifests and annual reporting are required for Off-site Storage/Processing/Disposal of the following wastes listed in Part I. All manifested wastes should be reported on the annual waste summary report and submitted to the TWC by the 25th of each January for the prior calendar year.

In addition for any of the following waste(s) manifested and shipped to Storage/Processing/Disposal facilities in any other state a waste shipment summary is required. All such shipments should be reported on the waste shipment summary report and submitted to the TWC no later than the 25th day of the month immediately succeeding the month in which the shipment was made. No waste shipment summary report is required for months when out of state shipments are not made.

002	910200	TRICHLOROETHANE OR TETRACHLORO ETHANE
003	901990	ACID, SULFURIC, MERCURY CONTAI NING
006	910590	LAB WASTE, ORGANIC LIQUID
010	980610	WAX
015	911150	SOLVENTS, HALOGENATED
016	913860	SOLVENTS, NON-HALOGENATED
017	972240	CATALYST, SILICA GEL, CONTAINI NG CHROMIUM
018	917270	SOLVENTS CONTAINING ALUMINUM A LKYLS- PYROPHORIC
019	912830	ACETONITRILE (METHYL CYANIDE)
020	175500	PLANT WASTES, CONTAMINATED
021	902880	CORROSIVE WASTES

022 910450 OIL, WASTE
023 110250 ETHYLENE GLYCOL
024 970960 DESSICANT
026 901110 CLEANING SOLUTION, ACID AND/OR
CAUSTIC
027 103160 PROCESSING CHEMICAL ADDITIVES,
MISC
030 903160 PROCESSING CHEMICAL ADDITIVES,
MISC
031 908560 OIL AND SOLVENT, IN WATER
032 907050 LAB WASTE, LIQUID
034 910020 NAPHTHA
035 917070 FUEL
036 173090 ASBESTOS, GASKET CUTTINGS AND
INSULATION CONTAINING
037 976810 BATTERIES, LITHIUM
038 916940 PAINT AND SOLVENTS
039 919080 CATALYST AND SOLVENT
040 983480 RAGS, CONTAMINATED
041 173880 PCB CAPACITOR
042 116080 PCB TRANSFORMER OIL

III. ON-SITE WASTE MANAGEMENT FACILITIES:

FAC NO.	FACILITY	STATUS
01	SURFACE IMPOUNDMENT STORAGE OF WASTE NUMBER(S) 007 2 POND SYSTEM	ACTIVE
02	TANK STORAGE FOR LESS THAN 90 DAYS OF WASTE NUMBER(S) 010, 035 TANK: F-710, TOTALLY EXEMPTED TREATMENT FACILITY EXEMPTED FROM PERMITTING	ACTIVE

- 03 CONTAINER STORAGE AREA ACTIVE
STORAGE FOR LESS THAN 90 DAYS
OF WASTE NUMBER(S) 002, 003, 005, 006, 010, 011,
012, 013, 014, 015, 016, 017,
018, 019, 021, 022, 023, 024,
026, 027, 028, 029, 030, 032,
036, 037, 038, 039, 040, 041,
042
- 04 MISCELLANEOUS STORAGE CONTAINERS ACTIVE
STORAGE FOR LESS THAN 90 DAYS
OF WASTE NUMBER(S) 020
SEALED ROLL-OFF BOX
- 05 TANK (SURFACE) ACTIVE
STORAGE FOR LESS THAN 90 DAYS
OF WASTE NUMBER(S) 022, 035
TANK: F-706, TOTALLY ENCLOSED TREATMENT FACILITY
EXEMPTED FROM PERMITTING.
- 06 TANK (SURFACE) ACTIVE
STORAGE FOR LESS THAN 90 DAYS
OF WASTE NUMBER(S) 022, 035
TANK: F-707, TOTALLY ENCLOSED TREATMENT FACILITY
EXEMPTED FROM PERMITTING
- 07 TANK (SURFACE) ACTIVE
STORAGE FOR LESS THAN 90 DAYS
OF WASTE NUMBER(S) 010, 016, 025, 035
TANK: F-713, TOTALLY ENCLOSED TREATMENT FACILITY
EXEMPTED FROM PERMITTING
- 08 TANK (SURFACE) ACTIVE
STORAGE FOR LESS THAN 90 DAYS
OF WASTE NUMBER(S) 010, 012, 013, 014, 016, 025,
035
TANK: F-714, TOTALLY EXEMPTED TREATMENT FACILITY
EXEMPTED FROM PERMITTING
- 09 LANDFILL ACTIVE
DISPOSAL
OF WASTE NUMBER(S) 007, 043, 044
LOCATED AT THE MOBIL O&A FAC.-REG.-30047, FAC. 01
USED BY THIS MOBIL FAC. P.E. PLANT
- 10 MISCELLANEOUS STORAGE CONTAINERS ACTIVE
STORAGE FOR LESS THAN 90 DAYS
OF WASTE NUMBER(S) 001, 008, 033, 034
OPEN ROLL-OFF BOX

UNLESS OTHERWISE STATED ABOVE, FACILITIES ARE LOCATED
AT NORTH OF U.S. HWY 90, 7 MILES WEST OF BEAUMONT
COUNTY OF JEFFERSON

IV. RECORDS.

- A. FOR PURPOSES OF FILING ANNUAL REPORTS PURSUANT TO TEXAS ADMINISTRATIVE CODE SECTION 335 OF THE RULES OF THE TWC PERTAINING TO INDUSTRIAL SOLID WASTE MANAGEMENT, RECORDS SHOULD BE MAINTAINED FOR STORAGE, PROCESSING AND/OR DISPOSAL OF THE FOLLOWING WASTE(S) LISTED IN PART I:

002 910200 TRICHLOROETHANE OR TETRACHLORO
ETHANE

003 901990 ACID, SULFURIC, MERCURY CONTAINING

006 910590 LAB WASTE, ORGANIC LIQUID

010 980610 WAX

015 911150 SOLVENTS, HALOGENATED

016 913860 SOLVENTS, NON-HALOGENATED

017 972240 CATALYST, SILICA GEL, CONTAINING CHROMIUM

018 917270 SOLVENTS CONTAINING ALUMINUM ALKYL- PYROPHORIC

019 912830 ACETONITRILE (METHYL CYANIDE)

020 175500 PLANT WASTES, CONTAMINATED

021 902880 CORROSIVE WASTES

022 910450 OIL, WASTE

023 110250 ETHYLENE GLYCOL

024 970960 DESSICANT

026 901110 CLEANING SOLUTION, ACID AND/OR CAUSTIC

027 103160 PROCESSING CHEMICAL ADDITIVES, MISC

030 903160 PROCESSING CHEMICAL ADDITIVES, MISC

031 908560 OIL AND SOLVENT, IN WATER

032 907050 LAB WASTE, LIQUID

034 910020 NAPHTHA

035 917070 FUEL

REGISTRATION NUMBER: 51424
COMPANY NAME: MOBIL CHEMICAL COMPANY

036 173090 ASBESTOS, GASKET CUTTINGS AND
INSULATION CONTAINING

037 976810 BATTERIES, LITHIUM

038 916940 PAINT AND SOLVENTS

039 919080 CATALYST AND SOLVENT

040 983480 RAGS, CONTAMINATED

041 173880 PCB CAPACITOR

042 116080 PCB TRANSFORMER OIL

APPENDIX C
CHEMICAL ANALYSIS DATA
WASTEWATER SURGE BASIN SEDIMENT

(from ref. 25)

WASTEWATER IMPOUNDMENT SEDIMENT CHARACTERIZATION DATA

Sample ID Number

PARAMETER	MCC-1	MCC-4	MCC-9	MCC-10	MCC-12	MCC-21	MCC-24	MCC-32	MCC-35
IGNITABILITY	F	212**	212**	212**	212**	212**	212**	212**	212**
CORROSIVITY	S. U.	7.80	7.50	9.00	7.00	7.20	7.60	7.10	7.40
REACTIVITY	YES	YES	YES	YES	YES	YES	YES	YES	YES
SULFIDE	MG/L	174.00	30.00	207.00	2.00*	2.00*	150.00	88.00	2.00*
CYANIDE	MG/L	2.00*	1.10	2.10	3.00*	3.00*	10.00	8.00	5.60
ARSENIC	MG/L	.010*	.010*	.010*	.013	.010*	.010*	.010	.010*
BARIUM	MG/L	.440	.490	.660	.500	.570	.660	.750	.540
CADMIUM	MG/L	.001*	.001*	.001*	.001*	.003	.007	.001*	.004
CHROMIUM	MG/L	.020	.019	.013	.017	.022	.024	.018	.025
LEAD	MG/L	.010*	.010*	.010*	.010*	.010*	.010*	.010*	.010*
MERCURY	MG/L	.002*	.002*	.002*	.002*	.002*	.002*	.002*	.002*
SELENIUM	MG/L	.010*	.010*	.010*	.010*	.010*	.010*	.010*	.010*
SILVER	MG/L	.002*	.002*	.002*	.002*	.002*	.002*	.002*	.002*
TOC	MG/L	31027.3	23452.5	7113.1	35828.1	14906.4	20228.4	47410.0	16550.2
TOX	MG/L	41.25	165.40	64.40	175.15	149.60	131.70	129.60	135.50

* = LESS THAN DETECTION LIMIT

** = GREATER THAN DETECTION LIMIT

TABLE 2

WASTEWATER IMPOUNDMENT SEDIMENT CHARACTERIZATION DATA

STATISTICAL ANALYSIS OF DATA IN TABLE 1

PARAMETER	UNITS	NUMBER	MAXIMUM	MINIMUM	MEAN	S.D.	RCRA THRESHOLD LIMIT
IGNITABILITY	F	9	212.00	212.00	212.00	.0000	< 140
CORROSIVITY	S. U.	9	9.000	7.000	7.578	.5932	*
REACTIVITY	MG/L	9	N/A	N/A	N/A	N/A	-
SULFIDE	MG/L	9	207.00	2.00	83.00	79.64	-
CYANIDE	MG/L	9	10.000	1.100	4.433	3.002	-
ARSENIC	MG/L	9	.01	.01	.0103	.0010	5.00
BARIUM	MG/L	9	.750	.390	.556	.1163	100.00
CADMIUM	MG/L	9	.01	.001	.0022	.0021	1.00
CHROMIUM	MG/L	9	.03	.01	.0201	.0038	5.00
LEAD	MG/L	9	.01	.01	.0100	.0000	5.00
MERCURY	MG/L	9	.002	.002	.002	.0000	.20
SELENIUM	MG/L	9	.01	.01	.010	.0000	1.00
SILVER	MG/L	9	.002	.002	.0020	.0000	5.00
TOC	MG/L	9	47410.00	7113.10	23599.23	12448.58	-
TOX	MG/L	9	175.15	41.25	127.91	45.6450	-

* = pH LESS THAN OR EQUAL TO 2.0 AND GREATER THAN OR EQUAL TO 12.5

TABLE 3
WASTEWATER IMPOUNDMENT SEDIMENT CHARACTERIZATION DATA
STATISTICAL ANALYSIS OF DATA IN TABLE 1

	N	MEAN	S. D.	Sx	80% CI
ARSENIC	9	.01	.001	.00033	.01 ± 4.56E-4
BARIUM	9	.556	.1163	.0388	.556 ± .0542
CADMIUM	9	.0022	.0021	.0007	.0022 ± 9.78E-4
CHROMIUM	9	.0201	.0038	.0013	.0201 ± .0018
LEAD	9	.01	0	0	.01 ± 0
MERCURY	9	.002	0	0	.002 ± 0
SELENIUM	9	.01	0	0	.01 ± 0
SILVER	9	.002	0	0	.002 ± 0
CORROSIVITY	9	7.578	.5932	.1977	7.578 ± .276
SULFIDE	9	83	79.64	26.547	83 ± 37.09
CYANIDE	9	4.433	3.002	1.0007	4.433 ± 1.40
TOC	9	23599.23	12448.58	4149.53	23599.23 ± 5796.89
TOX	9	127.91	45.645	15.215	127.91 ± 21.25

REFERENCE : TEST METHODS FOR EVALUATING SOLID WASTE,
PHYSICAL / CHEMICAL METHODS, U.S.EPA, SW-846, JULY 1982

TABLE 4

WASTEWATER IMPOUNDMENT SEDIMENT CHARACTERIZATION DATA

PARAMETER	UNITS	MCC-1	MCC-4	MCC-9	MCC-10	MCC-12	MCC-21	MCC-24	MCC-32	MCC-35
LINDANE	MG/L	.0002*	.0002*	.0002*	.0002*	.0002*	.0002*	.0002*	.0002*	.0002*
ENDRIN	MG/L	.0002*	.0002*	.0002*	.0002*	.0002*	.0002*	.0002*	.0002*	.0002*
METHOXYCHLOR	MG/L	.002*	.002*	.002*	.002*	.002*	.002*	.002*	.002*	.002*
TOXAPHENE	MG/L	.005*	.005*	.005*	.005*	.005*	.005*	.005*	.005*	.005*
2,4-D	MG/L	.010*	.010*	.010*	.010*	.010*	.010*	.010*	.010*	.010*
2,4,5-TP(SILVEX)	MG/L	.004*	.004*	.004*	.004*	.004*	.004*	.004*	.004*	.004*

* = LESS THAN DETECTION LIMIT

TABLE 5
WASTEWATER IMPOUNDMENT SEDIMENT CHARACTERIZATION DATA
STATISTICAL ANALYSIS OF DATA IN TABLE 4

PARAMETER	UNITS	NUMBER	MAXIMUM	MINIMUM	MEAN	S.D.	RCRA THRESHOLD LIMIT
LINDANE	MG/L	9	.0002	.0002	.0002	.000	.40
ENDRIN	MG/L	9	.0002	.0002	.0002	.000	.02
METHOXYCHLOR	MG/L	9	.002	.002	.002	.000	10.00
TOXAPHENE	MG/L	9	.005	.005	.005	.000	.50
2,4-D	MG/L	9	.010	.010	.010	.000	10.00
2,4,5-TP (SILVEX)	MG/L	9	.004	.004	.004	.000	10.00

APPENDIX D

SEDIMENT TCLP ANALYSES

**SLUDGE DEWATERING BASIN (SWMU No. 1)
WASTEWATER SURGE BASIN (SWMU No. 10)
WASTEWATER AERATION BASIN (SWMU No. 12)
EFFLUENT HOLDING BASIN (SWMU No. 13)**



CORE LABORATORIES

CORE LABORATORIES ANALYTICAL REPORT

Job Number: 920080

Prepared For:

MOBIL CHEMICAL COMPANY

BETTY COTTEN

P.O. BOX 2295

BEAUMONT, TX 77704

Date: 01/16/92

Robert Morris
Signature

1-16-92
Date:

Name: ROBERT MORRIS

Core Laboratories
3645 Arizona Street
Sulphur, LA 70663

Title: Laboratory Manager



CORE LABORATORIES

Job Number - 920080
 Date Sampled - 01/03/92
 Time Sampled - 15:00
 Date Received - 01/06/92
 Time Received - 11:40
 Customer Name - MOBIL CHEMICAL COMPANY
 Customer Address - P.O. BOX 2295
 Customer Location - BEAUMONT, TX 77704
 Customer Contact - BETTY COTTEN
 Client I.D. - WATER TREATMENT SLUDGE
 Sample Description - (007/SSB) South Sludge Basin

Report Summary
 Based on the analysis requested by customer, Sample was not found to exceed any EPA regulatory thresholds.

SAMPLE MATRIX	RESULT
% Solid	49.6
% Aqueous	50.4
% Organic	<0.5

HAZARDOUS WASTE CHARACTERIZATION

CHARACTERISTICS	RESULT	UNITS	METHOD(2)	REGULATORY THRESHOLD
Corrosivity	7.6	Std Units	9040	≤ 2 or ≥ 12.50
as pH	>200	Deg. F	1010	≤ 140 Deg. F
Ignitability				
Flashpoint				
Reactivity				
T. Available Sulfide	115.5	mg/kg	Section 7.3.4	≥ 500 mg/kg
T. Available Cyanide	<0.01	mg/kg	Section 7.3.4	≥ 250 mg/kg
TOXICITY CHARACTERISTICS(1)	RESULT	UNITS	METHOD(2)	REGULATORY THRESHOLD
TCLP METALS				
Arsenic	<0.05	mg/l	7061	≥ 5.0 mg/l
Barium	3.1	mg/l	6010	≥ 100 mg/l
Cadmium	<0.005	mg/l	6010	≥ 1.0 mg/l
Chromium	0.01	mg/l	6010	≥ 5.0 mg/l
Lead	<0.09	mg/l	6010	≥ 5.0 mg/l
Mercury	<0.002	mg/l	7470	≥ 0.2 mg/l
Selenium	<0.14	mg/l	6010	≥ 1.0 mg/l
Silver	<0.05	mg/l	6010	≥ 5.0 mg/l
TCLP VOLATILES				
Benzene	<0.05	mg/l	8240	≥ 0.5 mg/l
Carbon tetrachloride	<0.05	mg/l	8240	≥ 0.5 mg/l
Chlorobenzene	<0.05	mg/l	8240	≥ 100 mg/l
Chloroform	<0.05	mg/l	8240	≥ 6.0 mg/l
1,2-Dichloroethane	<0.05	mg/l	8240	≥ 0.5 mg/l
1,1-Dichloroethylene	<0.05	mg/l	8240	≥ 0.7 mg/l
Methyl ethyl ketone	<1.00	mg/l	8240	≥ 200 mg/l
Tetrachloroethylene	<0.05	mg/l	8240	≥ 0.7 mg/l
Trichloroethylene	<0.05	mg/l	8240	≥ 0.5 mg/l
Vinyl chloride	<0.10	mg/l	8240	≥ 0.2 mg/l

(1) REFERENCE: Federal Register, Friday, July 1, 1990, Part 261, Appendix II, Method 1311

(2) REFERENCE: EPA Test Methods for Evaluating Solid Waste: Nov 1990 SW-846 Third Edition

On Behalf of Core Laboratories,

Robert Morris
 Laboratory Manager

3645 Arizona Street
 Sulphur, La. 70663
 (318) 583-4926

PAGE:1

The analyses, conclusions or interpretations contained in this report are based upon observations and materials submitted by the client. While every effort is made to ensure the accuracy of the data, the client is responsible for the accuracy of the information provided. Core Laboratories, Inc. assumes no responsibility for the accuracy of the data or the conclusions or interpretations of the data. The client is responsible for the accuracy of the information provided.

Job Number - 920080
Date Sampled - 01/03/92
Time Sampled - 15:00
Date Received - 01/06/92
Time Received - 11:40
Customer Name - MOBIL CHEMICAL COMPANY
Customer Address - P.O. BOX 2295
Customer Location - BEAUMONT, TX 77704
Customer Contact - BETTY COTTEN
Client I.D. - WATER TREATMENT SLUDGE
Sample Description - (007/SSB)

HAZARDOUS WASTE CHARACTERIZATION

TOXICITY CHARACTERISTICS(1)	RESULT	UNITS	METHOD(2)	REGULATORY THRESHOLD
ICLP EXTRACTABLES				
M,P-Cresol	<0.03	mg/l	8270	≥ 200 mg/l
O-Cresol	<0.03	mg/l	8270	≥ 200 mg/l
1,4-Dichlorobenzene	<0.03	mg/l	8270	≥ 7.5 mg/l
2,4-Dinitrotoluene	<0.03	mg/l	8270	≥ 0.13 mg/l
Hexachlorobenzene	<0.03	mg/l	8270	≥ 0.13 mg/l
Hexachloro-1,3-butadiene	<0.03	mg/l	8270	≥ 0.5 mg/l
Hexachloroethane	<0.03	mg/l	8270	≥ 3.0 mg/l
Nitrobenzene	<0.03	mg/l	8270	≥ 2.0 mg/l
Pentachlorophenol	<0.15	mg/l	8270	≥ 100 mg/l
Pyridine	<0.03	mg/l	8270	≥ 5.0 mg/l
2,4,5-Trichlorophenol	<0.03	mg/l	8270	≥ 400 mg/l
2,4,6-Trichlorophenol	<0.03	mg/l	8270	≥ 2.0 mg/l

(1) REFERENCE: Federal Register, Friday, July 1, 1990, Part 261, Appendix II, Method 1311

(2) REFERENCE: EPA Test Methods for Evaluating Solid Waste: Nov 1990 SW-846 Third Edition

On Behalf of Core Laboratories,


Robert Morris
Laboratory Manager

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BEAUMONT

DALLAS

HOUSTON

DATE RECEIVED : 17-FEB-1992

REPORT NUMBER : D92-1588-4

REPORT DATE : 9-MAR-1992

SAMPLE SUBMITTED BY : Mobil Chemical Corporation

ADDRESS : P.O. Box 2295

: Beaumont, Texas 77705

ATTENTION : Mrs. Betty Cotton

SAMPLE MATRIX : Sludge

ID MARKS : Surge Basin Sludge (007/SBS)

PROJECT : Polyethylene Plant

DATE SAMPLED : 12-FEB-1992

ANALYSIS METHOD : EPA 8270

TCLP EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
o-Cresol	0.08 mg/L	< 0.08 mg/L
m-Cresol	0.08 mg/L	< 0.08 mg/L
p-Cresol	0.08 mg/L	< 0.08 mg/L
2,4-Dinitrotoluene	0.04 mg/L	< 0.04 mg/L
Hexachlorobenzene	0.04 mg/L	< 0.04 mg/L
Hexachlorobutadiene	0.04 mg/L	< 0.04 mg/L
Hexachloroethane	0.04 mg/L	< 0.04 mg/L
Nitrobenzene	0.04 mg/L	< 0.04 mg/L
Pentachlorophenol	0.20 mg/L	< 0.20 mg/L
Pyridine	0.04 mg/L	< 0.04 mg/L
2,4,5-Trichlorophenol	0.04 mg/L	< 0.04 mg/L
2,4,6-Trichlorophenol	0.04 mg/L	< 0.04 mg/L

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Nitrobenzene-d5 (SS)	50.0 µg/L	85.2 %
2-Fluorobiphenyl (SS)	50.0 µg/L	85.2 %
Terphenyl-d14 (SS)	50.0 µg/L	85.0 %
Phenol-d5 (SS)	100 µg/L	48.9 %



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HOUSTON

REPORT NUMBER : D92-1588-4
ANALYSIS METHOD : EPA 8270

PAGE 2

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
2-Fluorophenol (SS)	100 $\mu\text{g/L}$	48.8 %
2,4,6-Tribromophenol (SS)	100 $\mu\text{g/L}$	74.9 %

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: Beaumont, Texas 77705
ATTENTION : Mrs. Betty Cotton

SAMPLE MATRIX : Sludge
ID MARKS : Surge Basin Sludge (007/SBS)
PROJECT : Polyethylene Plant
DATE SAMPLED : 12-FEB-1992
ANALYSIS METHOD : EPA 8240

TCLP VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Benzene	0.01 mg/L	< 0.01 mg/L
Carbon tetrachloride	0.01 mg/L	< 0.01 mg/L
Chlorobenzene	0.01 mg/L	< 0.01 mg/L
Chloroform	0.01 mg/L	< 0.01 mg/L
1,4-Dichlorobenzene	0.01 mg/L	< 0.01 mg/L
1,2-Dichloroethane	0.01 mg/L	< 0.01 mg/L
1,1-Dichloroethene	0.01 mg/L	< 0.01 mg/L
Methyl ethyl ketone	0.05 mg/L	0.16 mg/L
Tetrachloroethene	0.01 mg/L	0.01 mg/L
Trichloroethene	0.01 mg/L	< 0.01 mg/L
Vinyl chloride	0.02 mg/L	< 0.02 mg/L

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4(SS)	50.0 µg/L	107 %
Toluene-d8(SS)	50.0 µg/L	110 %
Bromofluorobenzene(SS)	50.0 µg/L	100 %

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ADDRESS : P.O. Box 2295
: Beaumont, Texas 77705
ATTENTION : Mrs. Betty Cotton

SAMPLE MATRIX : Sludge
ID MARKS : Surge Basin Sludge (007/SBS)
PROJECT : Polyethylene Plant
DATE SAMPLED : 12-FEB-1992
ANALYSIS METHOD : EPA 9020

TOTAL ORGANIC HALOGENS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Organic Halogen	10 mg/Kg	< 10 mg/Kg

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: Beaumont, Texas 77705
ATTENTION : Mrs. Betty Cotton

SAMPLE MATRIX : Sludge
ID MARKS : Surge Basin Sludge (007/SBS)
PROJECT : Polyethylene Plant
DATE SAMPLED : 12-FEB-1992

TCLP METALS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Silver	0.01 mg/L	< 0.01 mg/L
Arsenic	0.05 mg/L	< 0.05 mg/L
Barium	0.1 mg/L	1.4 mg/L
Cadmium	0.01 mg/L	0.02 mg/L
Chromium	0.05 mg/L	< 0.05 mg/L
Mercury	0.001 mg/L	< 0.001 mg/L
Lead	0.02 mg/L	< 0.02 mg/L
Selenium	0.05 mg/L	< 0.05 mg/L

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SAMPLE MATRIX : Sludge
ID MARKS : Surge Basin Sludge (007/SBS)
PROJECT : Polyethylene Plant
DATE SAMPLED : 12-FEB-1992

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Cyanide, Reactive	0.10 mg/Kg	< 0.10 mg/Kg
Total Solids	0.01 %	32.9 %
Sulfide, Reactive	0.1 mg/Kg	104 mg/Kg

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DALLAS

HOUSTON

DATE RECEIVED : 17-FEB-1992

REPORT NUMBER : D92-1588-2
REPORT DATE : 9-MAR-1992

SAMPLE SUBMITTED BY : Mobil Chemical Corporation
ADDRESS : P.O. Box 2295
: Beaumont, Texas 77705
ATTENTION : Mrs. Betty Cotton

SAMPLE MATRIX : Sludge
ID MARKS : Aeration Base Sludge (007/ABS)
PROJECT : Polyethylene Plant
DATE SAMPLED : 12-FEB-1992
ANALYSIS METHOD : EPA 8240

TCLP VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Benzene	0.01 mg/L	< 0.01 mg/L
Carbon tetrachloride	0.01 mg/L	< 0.01 mg/L
Chlorobenzene	0.01 mg/L	< 0.01 mg/L
Chloroform	0.01 mg/L	< 0.01 mg/L
1,4-Dichlorobenzene	0.01 mg/L	< 0.01 mg/L
1,2-Dichloroethane	0.01 mg/L	< 0.01 mg/L
1,1-Dichloroethene	0.01 mg/L	< 0.01 mg/L
Methyl ethyl ketone	0.05 mg/L	0.85 mg/L
Tetrachloroethene	0.01 mg/L	< 0.01 mg/L
Trichloroethene	0.01 mg/L	< 0.01 mg/L
Vinyl chloride	0.02 mg/L	< 0.02 mg/L

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4(SS)	50.0 µg/L	76.1 %
Toluene-d8(SS)	50.0 µg/L	103 %
Bromofluorobenzene(SS)	50.0 µg/L	96.9 %

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REPORT DATE : 9-MAR-1992

SAMPLE SUBMITTED BY : Mobil Chemical Corporation
ADDRESS : P.O. Box 2295
: Beaumont, Texas 77705
ATTENTION : Mrs. Betty Cotton

SAMPLE MATRIX : Sludge
ID MARKS : Aeration Base Sludge (007/ABS)
PROJECT : Polyethylene Plant
DATE SAMPLED : 12-FEB-1992
ANALYSIS METHOD : EPA 9020

TOTAL ORGANIC HALOGENS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Organic Halogen	10 mg/Kg	< 10 mg/Kg

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ATTENTION : Mrs. Betty Cotton

SAMPLE MATRIX : Sludge
ID MARKS : Aeration Base Sludge (007/ABS)
PROJECT : Polyethylene Plant
DATE SAMPLED : 12-FEB-1992
ANALYSIS METHOD : EPA 8270

TCLP EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
o-Cresol	0.08 mg/L	< 0.08 mg/L
m-Cresol	0.08 mg/L	< 0.08 mg/L
p-Cresol	0.08 mg/L	< 0.08 mg/L
2,4-Dinitrotoluene	0.04 mg/L	< 0.04 mg/L
Hexachlorobenzene	0.04 mg/L	< 0.04 mg/L
Hexachlorobutadiene	0.04 mg/L	< 0.04 mg/L
Hexachloroethane	0.04 mg/L	< 0.04 mg/L
Nitrobenzene	0.04 mg/L	< 0.04 mg/L
Pentachlorophenol	0.20 mg/L	< 0.20 mg/L
Pyridine	0.04 mg/L	< 0.04 mg/L
2,4,5-Trichlorophenol	0.04 mg/L	< 0.04 mg/L
2,4,6-Trichlorophenol	0.04 mg/L	< 0.04 mg/L

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Nitrobenzene-d5 (SS)	50.0 µg/L	84.1 %
2-Fluorobiphenyl (SS)	50.0 µg/L	82.0 %
Terphenyl-d14 (SS)	50.0 µg/L	83.6 %
Phenol-d5 (SS)	100 µg/L	30.4 %



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REPORT NUMBER : D92-1588-2
ANALYSIS METHOD : EPA 8270

PAGE 2

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
2-Fluorophenol (SS)	100 µg/L	28.4 %
2,4,6-Tribromophenol (SS)	100 µg/L	60.9 %

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SAMPLE MATRIX : Sludge
ID MARKS : Aeration Base Sludge (007/ABS)
PROJECT : Polyethylene Plant
DATE SAMPLED : 12-FEB-1992

TCLP METALS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Silver	0.01 mg/L	< 0.01 mg/L
Arsenic	0.05 mg/L	< 0.05 mg/L
Barium	0.1 mg/L	1.2 mg/L
Cadmium	0.01 mg/L	0.02 mg/L
Chromium	0.05 mg/L	< 0.05 mg/L
Mercury	0.001 mg/L	< 0.001 mg/L
Lead	0.02 mg/L	< 0.02 mg/L
Selenium	0.05 mg/L	< 0.05 mg/L

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ATTENTION : Mrs. Betty Cotton

SAMPLE MATRIX : Sludge
ID MARKS : Aeration Base Sludge (007/ABS)
PROJECT : Polyethylene Plant
DATE SAMPLED : 12-FEB-1992

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Cyanide, Reactive	0.10 mg/Kg	< 0.10 mg/Kg
Total Solids	0.01 %	47.9 %
Sulfide, Reactive	0.1 mg/Kg	112 mg/Kg

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DALLAS

HOUSTON

DATE RECEIVED : 17-FEB-1992

REPORT NUMBER : D92-1588-3

REPORT DATE : 9-MAR-1992

SAMPLE SUBMITTED BY : Mobil Chemical Corporation

ADDRESS : P.O. Box 2295

: Beaumont, Texas 77705

ATTENTION : Mrs. Betty Cotton

SAMPLE MATRIX : Sludge

ID MARKS : Holding Basin Sludge (007/HBS)

PROJECT : Polyethylene Plant

DATE SAMPLED : 12-FEB-1992

ANALYSIS METHOD : EPA 8270

TCLP EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
o-Cresol	0.08 mg/L	< 0.08 mg/L
m-Cresol	0.08 mg/L	< 0.08 mg/L
p-Cresol	0.08 mg/L	< 0.08 mg/L
2,4-Dinitrotoluene	0.04 mg/L	< 0.04 mg/L
Hexachlorobenzene	0.04 mg/L	< 0.04 mg/L
Hexachlorobutadiene	0.04 mg/L	< 0.04 mg/L
Hexachloroethane	0.04 mg/L	< 0.04 mg/L
Nitrobenzene	0.04 mg/L	< 0.04 mg/L
Pentachlorophenol	0.20 mg/L	< 0.20 mg/L
Pyridine	0.04 mg/L	< 0.04 mg/L
2,4,5-Trichlorophenol	0.04 mg/L	< 0.04 mg/L
2,4,6-Trichlorophenol	0.04 mg/L	< 0.04 mg/L

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Nitrobenzene-d5 (SS)	50.0 µg/L	82.6 %
2-Fluorobiphenyl (SS)	50.0 µg/L	88.6 %
Terphenyl-d14 (SS)	50.0 µg/L	102 %
Phenol-d5 (SS)	100 µg/L	60.6 %



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REPORT NUMBER : D92-1588-3
ANALYSIS METHOD : EPA 8270

PAGE 2

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
2-Fluorophenol (SS)	100 μ g/L	61.5 %
2,4,6-Tribromophenol (SS)	100 μ g/L	72.8 %

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: Beaumont, Texas 77705
ATTENTION : Mrs. Betty Cotton

SAMPLE MATRIX : Sludge
ID MARKS : Holding Basin Sludge (007/HBS)
PROJECT : Polyethylene Plant
DATE SAMPLED : 12-FEB-1992
ANALYSIS METHOD : EPA 8240

TCLP VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Benzene	0.01 mg/L	< 0.01 mg/L
Carbon tetrachloride	0.01 mg/L	< 0.01 mg/L
Chlorobenzene	0.01 mg/L	< 0.01 mg/L
Chloroform	0.01 mg/L	< 0.01 mg/L
1,4-Dichlorobenzene	0.01 mg/L	< 0.01 mg/L
1,2-Dichloroethane	0.01 mg/L	< 0.01 mg/L
1,1-Dichloroethene	0.01 mg/L	< 0.01 mg/L
Methyl ethyl ketone	0.05 mg/L	0.90 mg/L
Tetrachloroethene	0.01 mg/L	< 0.01 mg/L
Trichloroethene	0.01 mg/L	< 0.01 mg/L
Vinyl chloride	0.02 mg/L	< 0.02 mg/L

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4(SS)	50.0 µg/L	104 %
Toluene-d8(SS)	50.0 µg/L	107 %
Bromofluorobenzene(SS)	50.0 µg/L	100 %

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ADDRESS : P.O. Box 2295

: Beaumont, Texas 77705

ATTENTION : Mrs. Betty Cotton

SAMPLE MATRIX : Sludge

ID MARKS : Holding Basin Sludge (007/HBS)

PROJECT : Polyethylene Plant

DATE SAMPLED : 12-FEB-1992

ANALYSIS METHOD : EPA 9020

TOTAL ORGANIC HALOGENS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Organic Halogen	10 mg/Kg	< 10 mg/Kg

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ATTENTION : Mrs. Betty Cotton

SAMPLE MATRIX : Sludge

ID MARKS : Holding Basin Sludge (007/HBS)

PROJECT : Polyethylene Plant

DATE SAMPLED : 12-FEB-1992

TCLP METALS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Silver	0.01 mg/L	< 0.01 mg/L
Arsenic	0.05 mg/L	< 0.05 mg/L
Barium	0.1 mg/L	1.1 mg/L
Cadmium	0.01 mg/L	< 0.01 mg/L
Chromium	0.05 mg/L	< 0.05 mg/L
Mercury	0.001 mg/L	< 0.001 mg/L
Lead	0.02 mg/L	0.03 mg/L
Selenium	0.05 mg/L	< 0.05 mg/L

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REPORT NUMBER : D92-1588-3

REPORT DATE : 9-MAR-1992

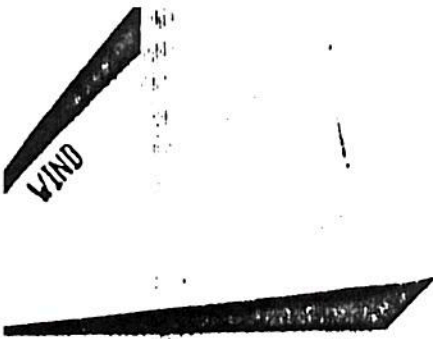
SAMPLE SUBMITTED BY : Mobil Chemical Corporation
ADDRESS : P.O. Box 2295
: Beaumont, Texas 77705
ATTENTION : Mrs. Betty Cotton

SAMPLE MATRIX : Sludge
ID MARKS : Holding Basin Sludge (007/HBS)
PROJECT : Polyethylene Plant
DATE SAMPLED : 12-FEB-1992

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Cyanide, Reactive	0.10 mg/Kg	< 0.10 mg/Kg
Total Solids	0.01 %	54.9 %
Sulfide, Reactive	0.1 mg/Kg	96.0 mg/Kg

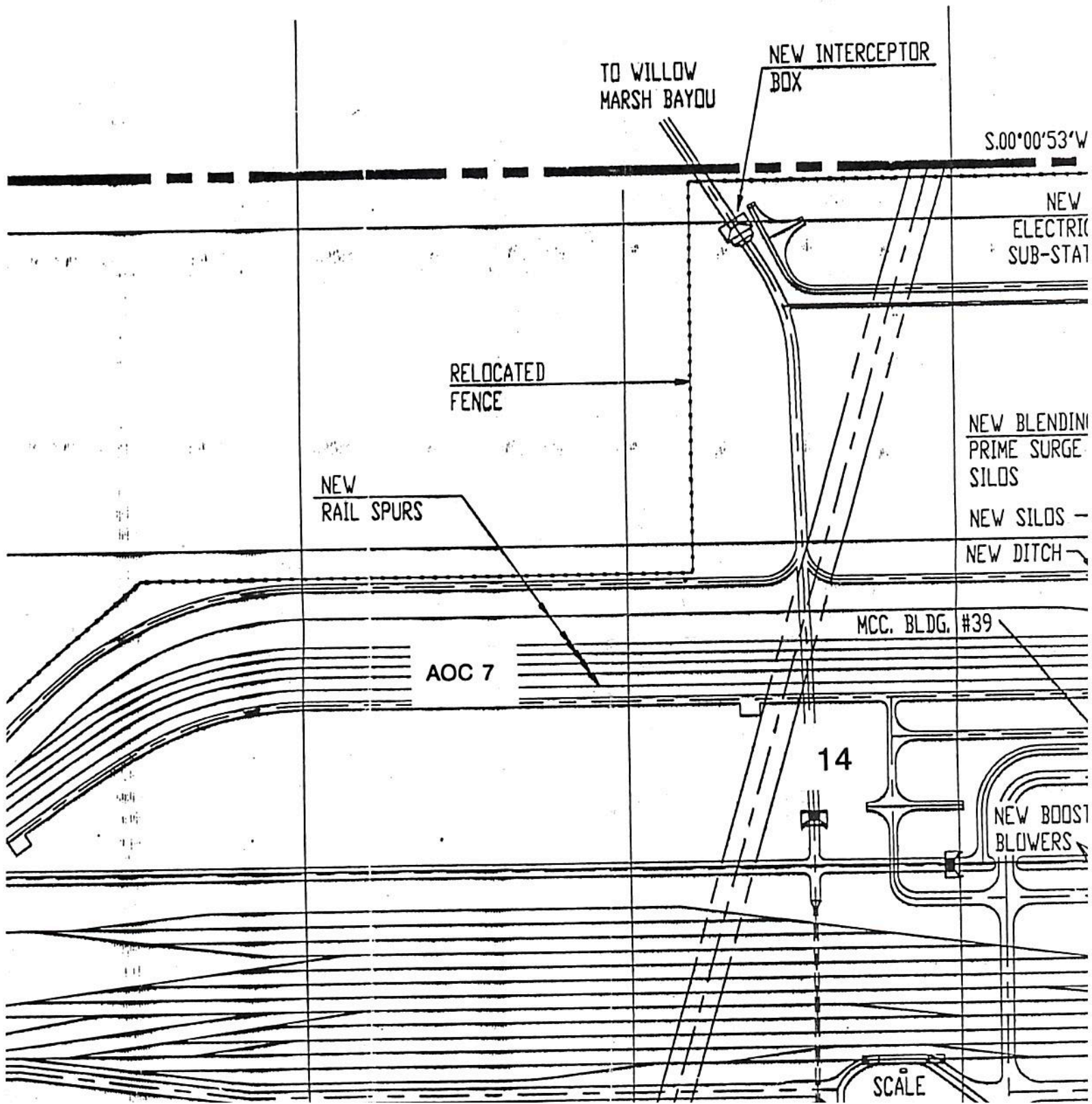
NDRC Laboratories, Inc.

David R. Godwin ✓ 2
David R. Godwin, Ph.D.
Chief Executive Officer



DETAILED PLOT PL MOBII

1 = SWMU NO. 1
AOC 1 = AOC NO. 1



WILLOW MARSH BAYOU

PREVAILING

E. 3500'-0"

Q M.P.R.R.

E. 3000'-0"

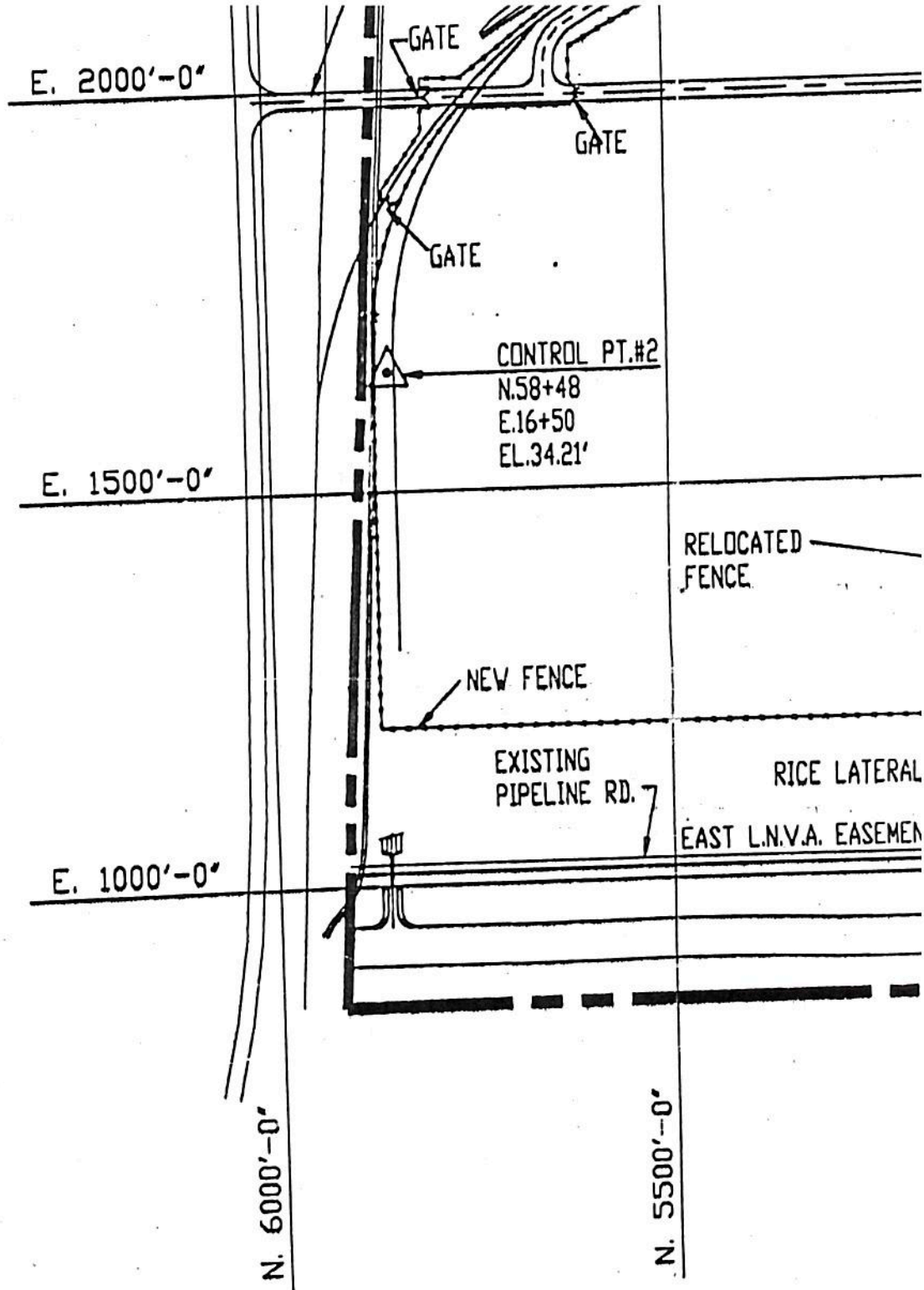
NEW

NEW DITCH

E. 2500'-0"

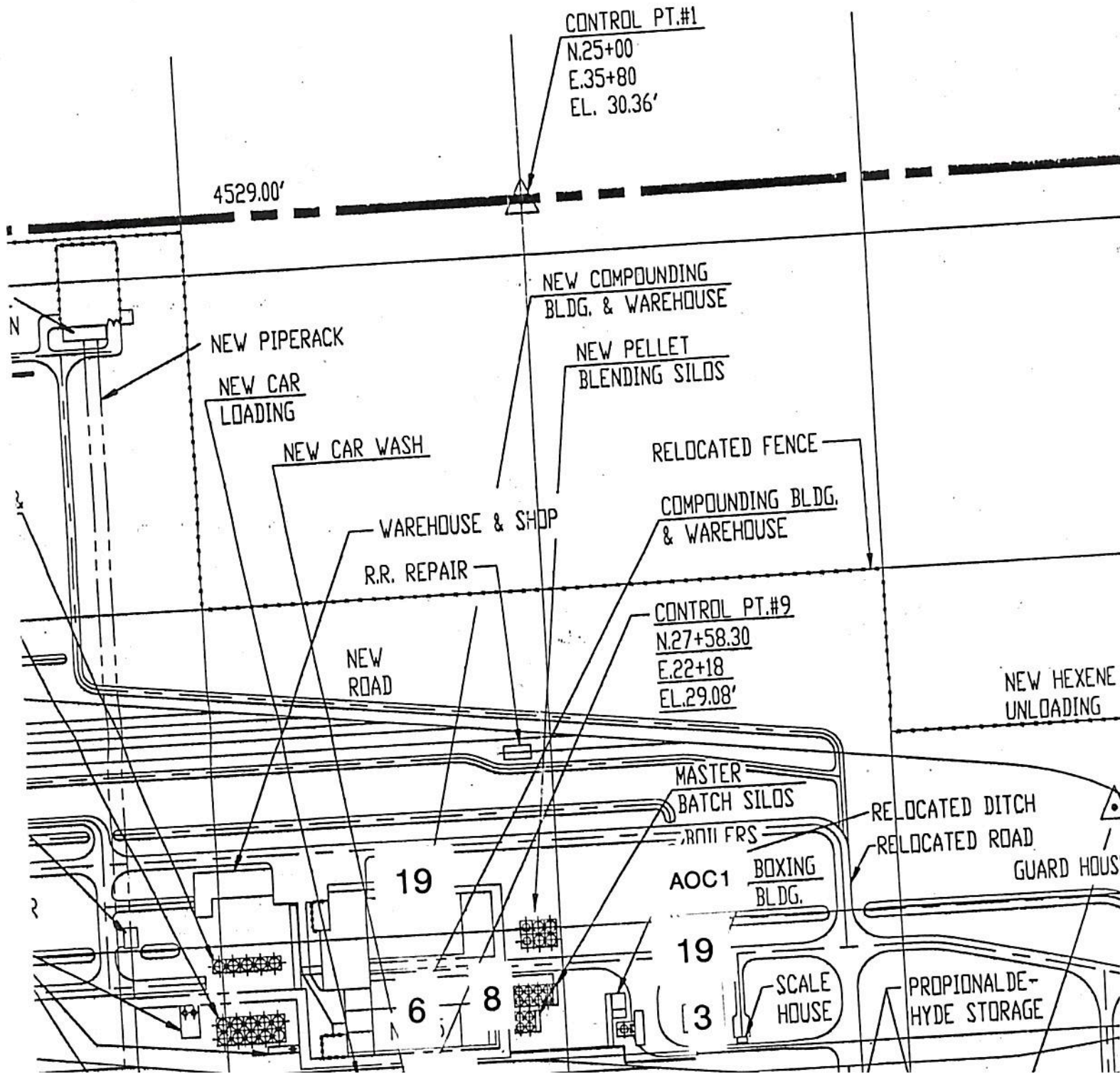
2735.89'

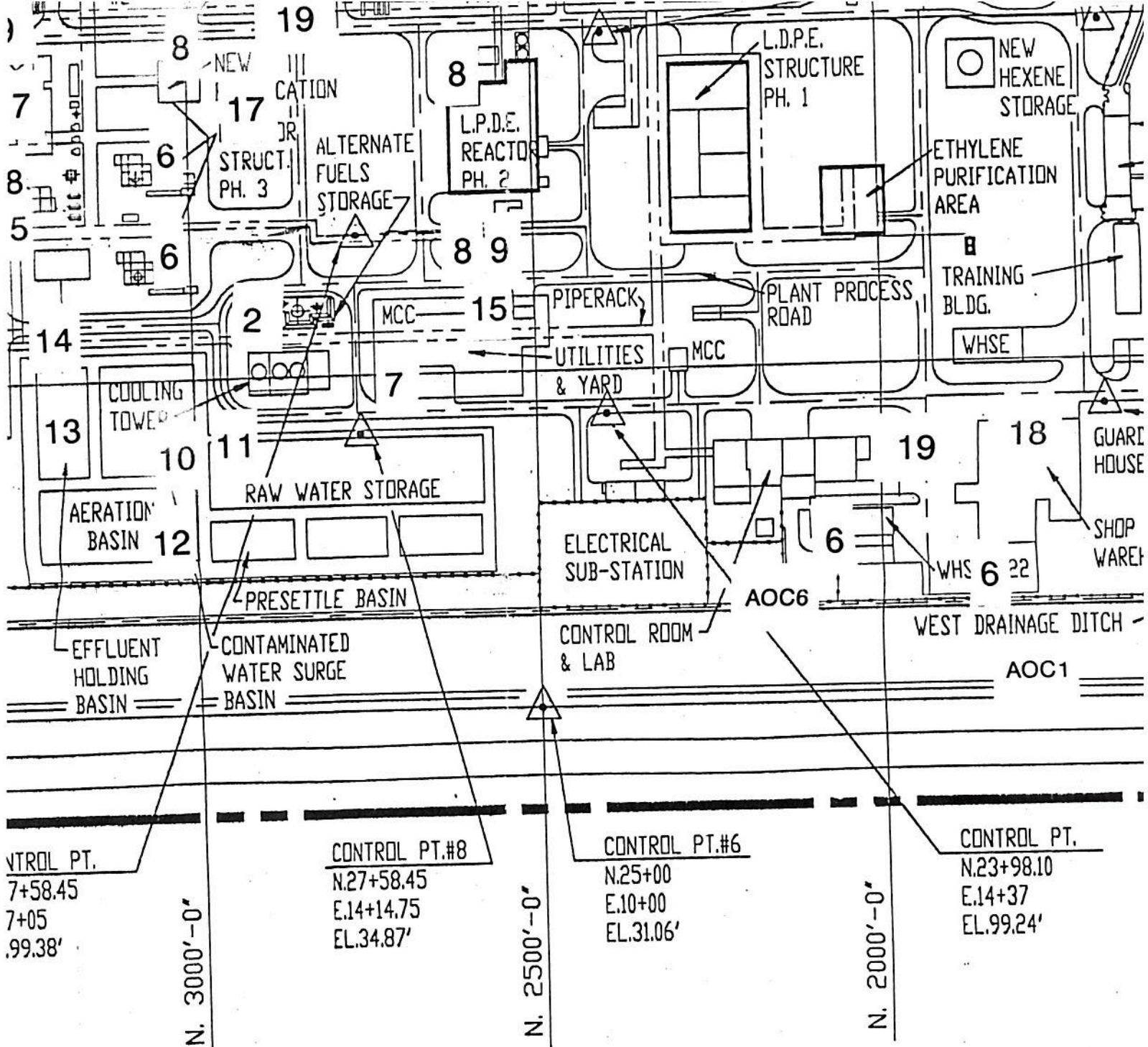
48'00"E



REVISIONS		DATE
NO.		
1	REDRAWN ON CADD	08FE89
2	GENERAL REVISION	12SEP89
3		
4		

AN AND SWMU LOCATION PE PLANT





CONTROL PT. #8
N.27+58.45
E.14+14.75
EL.34.87'

CONTROL PT. #6
N.25+00
E.10+00
EL.31.06'

CONTROL PT.
N.23+98.10
E.14+37
EL.99.24'

N. 3000'-0"

N. 2500'-0"

N. 2000'-0"

REFERENCE DRAWINGS		DRAWING STATUS	
		ISSUED	DA
		PRELIMINARY	
		FOR COMMENTS AND/OR APPROVAL	
		APPROVED FOR CONSTRUCTION	
		REVISED & APPROVED FOR CONSTRUCTION	9-11
		REV. <i>J.H. Slope</i>	
NOT APPROVED FOR CONSTRUCTION UNLESS S			

U.S.
HIGHWAY
90

2763.00

S.81°30'00"W

CONTROL PT.

N.75

S.30

99.61'

CONTROL PT.

N.23+98.10

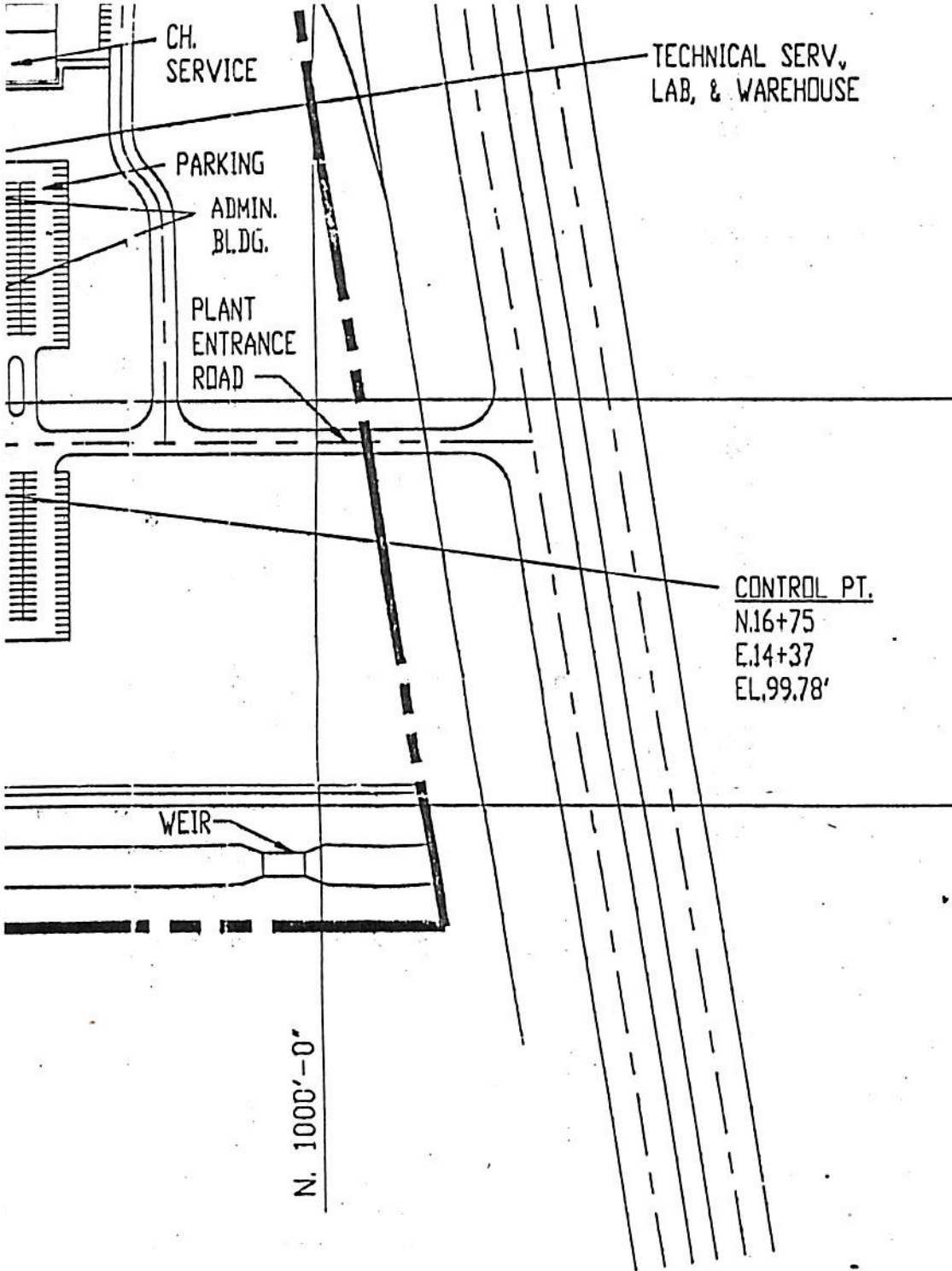
E.19+93

EL.99.715'

CONTROL PT.

N.16+75

E.19+93



Mobil

MOBIL CHEMICAL COMPANY
DIVISION OF MOBIL OIL CORPORATION
BEAUMONT, TEXAS

JOHN BROWN

John Brown, E & C Inc.

Houston, Texas

NO. 557-17

H021

GENERAL

CIVIL

PLOT PLAN

PE MODERNIZATION PROJECT
BEAUMONT, TEXAS

PROJ. ENG. J. H. Stoffe

DRAFTSMAN MICHAEL ROBINSON

DESIGN CHECK _____

DIM. CHECK _____

ENG. APPROVAL _____

DRAFT. APPROVAL CVS

SCALE 1" = 200'-0"

DATE 08 FE 89

SHT. NO.

00-2-01

REV.

22

DOCUMENTATION OF ENVIRONMENTAL INDICATOR DETERMINATION

Interim Final 2/5/99

RCRA Corrective Action
Environmental Indicator (EI) RCRIS code (CA725)

Current Human Exposures Under Control

Facility Name: ExxonMobil Chemical Plant
Facility Address: 5000 Bayway Dr., Baytown, TX 77522
Facility EPA ID #: TXD980809909
TCEQ Solid Waste Registration ID #: 33880

1. Has all available relevant/significant information on known and reasonably suspected releases to soil, groundwater, surface water/sediments, and air, subject to RCRA Corrective Action (e.g., from Solid Waste Management Units (SWMU), Regulated Units (RU), and Areas of Concern (AOC)), been considered in this EI determination?

☒ If yes - check here and continue with #2 below.

☐ If no - re-evaluate existing data, or

☐ if data are not available skip to #6 and enter "IN" (more information needed) status code.

BACKGROUND

Definition of Environmental Indicators (for the RCRA Corrective Action)

Environmental Indicators (EI) are measures being used by the RCRA Corrective Action program to go beyond programmatic activity measures (e.g., reports received and approved, etc.) to track changes in the quality of the environment. The two EI developed to-date indicate the quality of the environment in relation to current human exposures to contamination and the migration of contaminated groundwater. An EI for non-human (ecological) receptors is intended to be developed in the future.

Definition of "Current Human Exposures Under Control" EI

A positive "Current Human Exposures Under Control" EI determination ("YE" status code) indicates that there are no "unacceptable" human exposures to "contamination" (i.e., contaminants in concentrations in excess of appropriate risk-based levels) that can be reasonably expected under current land- and groundwater-use conditions (for all "contamination" subject to RCRA corrective action at or from the identified facility (i.e., site-wide)).

Relationship of EI to Final Remedies

While Final remedies remain the long-term objective of the RCRA Corrective Action program the EI are near-term objectives which are currently being used as Program measures for the Government Performance and Results Act of 1993, GPRA). The "Current Human Exposures Under Control" EI are for reasonably expected human exposures under current land- and groundwater-use conditions ONLY, and do not consider potential future land- or groundwater-use conditions or ecological receptors. The RCRA Corrective Action program's overall mission to protect human health and the environment requires that Final remedies address these issues (i.e., potential future human exposure scenarios, future land and groundwater uses, and ecological receptors).

Duration / Applicability of EI Determinations

EI Determinations status codes should remain in RCRIS national database ONLY as long as they remain true (i.e., RCRIS status codes must be changed when the regulatory authorities become aware of contrary information).

Current Human Exposures Under Control
Environmental Indicator (EI) RCRIS code (CA725)
Page 2

Are groundwater, soil, surface water, sediments, or air media known or reasonably suspected to be "contaminated"¹ above appropriately protective risk-based "levels" (applicable promulgated standards, as well as other appropriate standards, guidelines, guidance, or criteria) from releases subject to RCRA Corrective Action (from SWMUs, RUs or AOCs)?

	Yes	No	?	Rationale / Key Contaminants
Groundwater	<u>x</u>	—	—	<u>Benzene, Ethylbenzene, Toluene, Xylenes, MTBE</u>
Air (indoors) ²	—	<u>x</u>	—	—
Surface Soil (e.g., <2 ft)	<u>x</u>	—	—	<u>Benzene, Ethylbenzene, Toluene, Xylenes, MTBE</u>
Surface Water	—	<u>x</u>	—	—
Sediment	—	<u>x</u>	—	—
Subsurf. Soil (e.g., >2 ft)	<u>x</u>	—	—	<u>Benzene, Ethylbenzene, Toluene, Xylenes, MTBE</u>
Air (outdoors)	—	<u>x</u>	—	—

— If no (for all media) - skip to #6, and enter "YE," status code after providing or citing appropriate "levels," and referencing sufficient supporting documentation demonstrating that these "levels" are not exceeded.

X If yes (for any media) - continue after identifying key contaminants in each "contaminated" medium, citing appropriate "levels" (or provide an explanation for the determination that the medium could pose an unacceptable risk), and referencing supporting documentation.

— If unknown (for any media) - skip to #6 and enter "IN" status code.

Rationale and Reference(s): Benzene, Ethylbenzene, Toluene, Xylenes, MTBE are detected above TRRP residential and commercial/industrial protective concentration levels (PCLs) for Class 2 groundwater ingestion. There is non-aqueous phase liquid and the plume has migrated off-site. However, the plume is contained by the on-going corrective action program (consisting of pump and treat, etc.). Residential PCLs will be achieved in the off-site affected property. There are no off-site affected drinking water wells or irrigation wells within a one-mile radius of the site. The facility requires that the appropriate PPE be worn when monitoring wells are sampled to reduce exposure. For further information see 2013 through 2014 Groundwater Corrective Action Monitoring Reports, dated January 21, 2013 and January 29, 2014; and Step 3: Facility Operations Area (FOA) Report – Monitoring and Corrective Action Program Report for the ExxonMobil Baytown Chemical Plant dated July 8, 2013; and Addendum Response to TCEQ December 20, 2013 Comment Letter, dated April 16, 2014.

Footnotes:

¹ "Contamination" and "contaminated" describes media containing contaminants (in any form, NAPL and/or dissolved, vapors, or solids, that are subject to RCRA) in concentrations in excess of appropriately protective risk-based "levels" (for the media, that identify risks within the acceptable risk range).

² Recent evidence (from the Colorado Dept. of Public Health and Environment, and others) suggest that unacceptable indoor air concentrations are more common in structures above groundwater with volatile contaminants than previously believed. This is a rapidly developing field and reviewers are encouraged to look to the latest guidance for the appropriate methods and scale of demonstration necessary to be reasonably certain that indoor air (in structures located above (and adjacent to) groundwater with volatile contaminants) does not present unacceptable risks.

Current Human Exposures Under Control
Environmental Indicator (EI) RCRIS code (CA725)
Page 3

3. Are there **complete pathways** between "contamination" and human receptors such that exposures can be reasonably expected under the current (land- and groundwater-use) conditions?

Summary Exposure Pathway Evaluation Table

Potential Human Receptors (Under Current Conditions)

<u>"Contaminated" Media</u>	Residents	Workers	Day-Care	Construction	Trespassers	Recreation	Food ³
Groundwater	<u>Y</u>	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>Y</u>	<u>N</u>	<u>N</u>
Air (indoors)	<u>Y</u>	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>Y</u>	<u>N</u>	<u>N</u>
Soil (surface, e.g., <2 ft)	<u>Y</u>	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>Y</u>	<u>N</u>	<u>N</u>
Surface Water	<u>Y</u>	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>Y</u>	<u>N</u>	<u>N</u>
Sediment	<u>Y</u>	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>Y</u>	<u>N</u>	<u>N</u>
Soil (subsurface e.g., >2 ft)	<u>Y</u>	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>Y</u>	<u>N</u>	<u>N</u>
Air (outdoors)	<u>Y</u>	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>Y</u>	<u>N</u>	<u>N</u>

Instructions for Summary Exposure Pathway Evaluation Table:

1. Strike-out specific Media including Human Receptors' spaces for Media which are not "contaminated") as identified in #2 above.
2. enter "yes" or "no" for potential "completeness" under each "Contaminated" Media -- Human Receptor combination (Pathway).

Note: In order to focus the evaluation to the most probable combinations some potential "Contaminated" Media - Human Receptor combinations (Pathways) do not have check spaces ("___"). While these combinations may not be probable in most situations they may be possible in some settings and should be added as necessary.

- ___ If no (pathways are not complete for any contaminated media-receptor combination) - skip to #6, and enter "YE" status code, after explaining and/or referencing condition(s) in-place, whether natural or man-made, preventing a complete exposure pathway from each contaminated medium (e.g., use optional Pathway Evaluation Work Sheet to analyze major pathways).
- X If yes (pathways are complete for any "Contaminated" Media - Human Receptor combination) - continue after providing supporting explanation.
- ___ If unknown (for any "Contaminated" Media - Human Receptor combination) - skip to #6 and enter "IN" status code.

Rationale and Reference(s): Benzene, Ethylbenzene, Toluene, Xylenes, MTBE are detected above TRRP residential and commercial/industrial protective concentration levels (PCLs) for Class 2 groundwater ingestion. There is non-aqueous phase liquid and the plume has migrated off-site. However, the plume is contained by the on-going corrective action program (consisting of pump and treat, etc.). Residential PCLs will be achieved in the off-site affected property. There are no off-site affected drinking water wells or irrigation wells within a one-mile radius of the site. The facility requires that the appropriate PPE be worn when monitoring wells are sampled to reduce exposure. For further information see 2013 through 2014 Groundwater Corrective Action Monitoring Reports, dated January 21, 2013 and January 29, 2014, and Step 3: Facility Operations Area (FOA) Report - Monitoring and Corrective Action Program Report for the ExxonMobil Baytown Chemical Plant dated July 8, 2013; and Addendum Response to TCEQ December 20, 2013 Comment Letter, dated April 16, 2014.

³ Indirect Pathway/Receptor (e.g., vegetables, fruits, crops, meat and dairy products, fish, shellfish, etc.)

Current Human Exposures Under Control
Environmental Indicator (EI) RCRIS code (CA725)

Page 4

- 4 Can the exposures from any of the complete pathways identified in #3 be reasonably expected to be "significant"⁴ (i.e., potentially "unacceptable" because exposures can be reasonably expected to be: 1) greater in magnitude (intensity, frequency and/or duration) than assumed in the derivation of the acceptable "levels" (used to identify the "contamination"); or 2) the combination of exposure magnitude (perhaps even though low) and contaminant concentrations (which may be substantially above the acceptable "levels") could result in greater than acceptable risks)?

_____ If no (exposures can not be reasonably expected to be significant (i.e., potentially "unacceptable") for any complete exposure pathway) - skip to #6 and enter "YE" status code after explaining and/or referencing documentation justifying why the exposures (from each of the complete pathways) to "contamination" (identified in #3) are not expected to be "significant."

___x___ If yes (exposures could be reasonably expected to be "significant" (i.e., potentially "unacceptable") for any complete exposure pathway) - continue after providing a description (of each potentially "unacceptable" exposure pathway) and explaining and/or referencing documentation justifying why the exposures (from each of the remaining complete pathways) to "contamination" (identified in #3) are not expected to be "significant."

_____ If unknown (for any complete pathway) - skip to #6 and enter "IN" status code.

Rationale and Reference(s): Benzene, Ethylbenzene, Toluene, Xylenes, MTBE are detected above TRRP residential and commercial/industrial protective concentration levels (PCLs) for Class 2 groundwater ingestion. There is non-aqueous phase liquid and the plume has migrated off-site. However, the plume is contained by the on-going corrective action program (consisting of pump and treat, etc.). Residential PCLs will be achieved in the off-site affected property. There are no off-site affected drinking water wells or irrigation wells within a one-mile radius of the site. The facility requires that the appropriate PPE be worn when monitoring wells are sampled to reduce exposure. For further information see 2013 through 2014 Groundwater Corrective Action Monitoring Reports, dated January 21, 2013 and January 29, 2014, and Step 3: Facility Operations Area (FOA) Report – Monitoring and Corrective Action Program Report for the ExxonMobil Baytown Chemical Plant dated July 8, 2013; and Addendum Response to TCEQ December 20, 2013 Comment Letter, dated April 16, 2014.

⁴ If there is any question on whether the identified exposures are "significant" (i.e., potentially "unacceptable") consult a human health Risk Assessment specialist with appropriate education, training and experience.

Current Human Exposures Under Control
Environmental Indicator (EI) RCRIS code (CA725)
Page 5

5 Can the "significant" exposures (identified in #4) be shown to be within acceptable limits?

- ☒ X If yes (all "significant" exposures have been shown to be within acceptable limits) - continue and enter "YE" after summarizing and referencing documentation justifying why all "significant" exposures to "contamination" are within acceptable limits (e.g., a site-specific Human Health Risk Assessment).
- ☐ If no (there are current exposures that can be reasonably expected to be "unacceptable") - continue and enter "NO" status code after providing a description of each potentially "unacceptable" exposure.
- ☐ If unknown (for any potentially "unacceptable" exposure) - continue and enter "TN" status code

Rationale and Reference(s): Benzene, Ethylbenzene, Toluene, Xylenes, MTBE are detected above TRRP residential and commercial/industrial protective concentration levels (PCLs) for Class 2 groundwater ingestion. There is non-aqueous phase liquid and the plume has migrated off-site. However, the plume is contained by the on-going corrective action program (consisting of pump and treat, etc.). Residential PCLs will be achieved in the off-site affected property. There are no off-site affected drinking water wells or irrigation wells within a one-mile radius of the site. The facility requires that the appropriate PPE be worn when monitoring wells are sampled to reduce exposure. For further information see 2013 through 2014 Groundwater Corrective Action Monitoring Reports, dated January 21, 2013 and January 29, 2014, and Step 3: Facility Operations Area (FOA) Report – Monitoring and Corrective Action Program Report for the ExxonMobil Baytown Chemical Plant dated July 8, 2013; and Addendum Response to TCEQ December 20, 2013 Comment Letter, dated April 16, 2014.

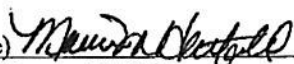
Current Human Exposures Under Control
Environmental Indicator (EI) RCRIS code (CA725)
Page 6

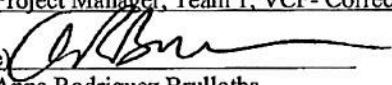
6. Check the appropriate RCRIS status codes for the Current Human Exposures Under Control EI event code (CA725), and obtain Supervisor (or appropriate Manager) signature and date on the EI determination below (and attach appropriate supporting documentation as well as a map of the facility):


 X YE - Yes, "Current Human Exposures Under Control" has been verified. Based on a review of the information contained in this EI Determination, "Current Human Exposures" are expected to be "Under Control" at the ExxonMobil Chemical Plant facility, EPA ID # TXD980809909, located at 5000 Bayway Dr, Baytown, TX 77522 under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.

 NO - "Current Human Exposures" are NOT "Under Control."

 IN - More information is needed to make a determination.

Completed by (signature)  Date 07/28/2014
(print) Maureen Hatfield
(title) Project Manager, Team 1, VCP- Corrective Action

Supervisor (signature)  Date 7/28/14
(print) Anna Rodriguez Brulloths
(title) Section Manager
Texas Commission on Environmental Quality



Locations where References may be found:

TCEQ Central Records, Austin, TX

Contact telephone and e-mail numbers:

Project Manager listed above
(512) 239-2200
maureen.hatfield@tceq.texas.gov

Final Note: The purpose of the Human Exposures EI is to qualitatively screen exposures based on current land and groundwater use. A "YE" determination does not constitute a screening tool that ends the corrective action process. The "YE" determination may be changed at any time as new information becomes available.

TCEQ Interoffice Memorandum

To: Central Records Files (MC – 199)

ExxonMobil Chemical Plant- Baytown
TCEQ SWR No. 33880

Thru: Merrie Smith, Supervisor

Team 1, VCP-CA Section, Remediation Division

From: Maureen Hatfield, P.G., Project Manager

Team 1, VCP-CA Section, Remediation Division

Date: August 14, 2015

Subject: Documentation of achievement of GPRA facility-wide remedy selection (CA-400)

EPA ID No. TXD980809909

CN No. CN602880288; RN No. RN102574803

Agreed Order No. 95-1078-IHW-E

Based on a file review, remedies have been selected for all units and areas of concern (AOCs) subject to RCRA/HSWA, and/or other corrective action activities conducted at the above-referenced facility. The RCRA milestone of facility-wide Remedy Decision (CA400)¹ has been achieved, based on the submittal of the Corrective Action Order application to complete response actions and establish a Facility Operation Area at the ExxonMobil Baytown Chemical Plant.

The units and AOCs considered in this evaluation are included in the list below:

Table 1: RCRA Corrective Action Program

RFI Units & AOCs subject to Corrective Action	Date for CA400-Remedy Decision ¹	Date for CA550-Approval of Remedy Construction/ Completion ²
PW03 Area LNAPL plume	February 25, 2015 ³	N/A
Tank Farm 3000 Area	February 25, 2015 ³	N/A
1,1-Dichloroethene Plume	February 25, 2015 ³	N/A
Well PW-03B Area Tank 4013 MTBE Plume	February 25, 2015 ³	N/A
Tank 3053 Area	February 25, 2015 ³	N/A

Table 2: RCRA Compliance or Corrective Action Monitoring Program

RCRA Regulated, Permitted Units subject to Compliance or Corrective Action Monitoring	Date for CA400-Remedy Decision ¹	Date for CA550-Approval of Remedy Construction/Completion ²
N/A		

Table 3: Other Programs

Interim Status, Unauthorized and Other Units/AOCs	Date for CA400-Remedy Decision ¹	Date for CA550-Approval of Remedy Construction/Completion ²
N/A		

To date, no additional units subject to corrective action requirements have been identified at the facility.

J.F. for Maureen Hatfield
Maureen Hatfield *Jan Fowley*

cc: Mr. Jason Ybarra, Waste Program Manager, TCEQ Region 12 Office, Houston

Footnote References:

- 1) "The event when the state or EPA formally selects a remedy designed to meet RCRA Corrective Action long-term goals of protection of human health and the environment. This event code also applies when no further corrective action is required because stabilization measure(s) have already been implemented or because the site characterization has demonstrated the attainment of the long-term RCRA Corrective Action goals." See RCRAInfo Data Dictionary for complete event code definition. Each unit and AOC must have an approved remedy for this event code to apply facility-wide.
- 2) "The event when the state or EPA acknowledges in writing that the RCRA facility has completed construction of a facility's remedy that was designed to achieve long-term protection of human health and the environment, and that the remedy is fully functional as designed, whether or not final cleanup levels or other requirements have been achieved. Remedy construction may also acknowledge the event where no remedy is constructed." See RCRAInfo Data Dictionary for complete event code definition. Each unit and AOC must have an approval of the remedy construction or approval of the decision that no physical construction is needed for this event code to apply facility-wide.
- 3) Date confirmed through TCEQ correspondence review.
- 4) Date obtained from RCRAInfo database.
- 5) Date obtained from facility correspondence.
- 6) Date obtained from TCEQ database.

TCEQ Interoffice Memorandum

To: Central Records Files (MC – 199)

Detrex Corporation, Arlington
TCEQ SWR No. 33533

Thru: Merrie Smith, Supervisor

Team 1, VCP-CA Section, Remediation Division

From: Maureen Hatfield, P.G., Project Manager

Team 1, VCP-CA Section, Remediation Division

Date: August 14, 2015

Subject: Documentation of achievement of GPRA facility-wide remedy selection (CA-400)

EPA ID No. TXD980626154
TCEQ Hazardous Waste Permit No. HW-50021
CN No. CN600283386 ; RN No. RN100572858

Based on a file review, remedies have been selected for all units and areas of concern (AOCs) subject to RCRA/HSWA, and/or other corrective action activities conducted at the above-referenced facility. The RCRA milestone of facility-wide Remedy Decision (CA400)¹ has been achieved, based on the submittal of the Class 3 Permit Modification Application, and preparation of the Initial Draft Permit dated May 15, 2015.

The units and AOCs considered in this evaluation are included in the list below:

Table 1: RCRA Corrective Action Program

RFI Units & AOCs subject to Corrective Action	Date for CA400-Remedy Decision ¹	Date for CA550-Approval of Remedy Construction/ Completion ²
1. AOC1-SWMUs 1 - <90 Day Generator Tank for Still Bottoms NOR 009	May 15, 2015 ³	N/A
2. AOC 1-SWMU 2 - Solvent Recovery Still	May 15, 2015 ³	N/A
3. AOC1-SWMU 3 – Process Recovery area	May 15, 2015 ³	N/A
4. AOC 2	May 15, 2015 ³	N/A
5.SWMU 5 Trash Receptacle NOR 008	March 29, 2007 ³	N/A

RFI Units & AOCs subject to Corrective Action	Date for CA400-Remedy Decision ¹	Date for CA550-Approval of Remedy Construction/Completion ²
6. SWMU 6 Tank and product line decommissioning NOR 014	March 29, 2007 ³	N/A

Table 2: RCRA Compliance or Corrective Action Monitoring Program

RCRA Regulated, Permitted Units subject to Compliance or Corrective Action Monitoring	Date for CA400-Remedy Decision ¹	Date for CA550-Approval of Remedy Construction/Completion ²
1. former RCRA-Unit Container Storage Area E and Dock Area NOR 013 also Part of AOC ²	May 15, 2015 ³	N/A

Table 3: Other Programs

Interim Status, Unauthorized and Other Units/AOCs	Date for CA400-Remedy Decision ¹	Date for CA550-Approval of Remedy Construction/Completion ²
N/A		

To date, no additional units subject to corrective action requirements have been identified at the facility.

J.F. for Maureen Hatfield
 Maureen Hatfield *John Fowley*

cc: Sam Barrett, Waste Program Manager, TCEQ Region 4 Office, Dallas/Fort Worth

Footnote References:

- 1) "The event when the state or EPA formally selects a remedy designed to meet RCRA Corrective Action long-term goals of protection of human health and the environment. This event code also applies when no further corrective action is required because stabilization measure(s) have already been implemented or because the site characterization has demonstrated the attainment of the long-term RCRA Corrective Action goals." See RCRAInfo Data Dictionary for complete event code definition. Each unit and AOC must have an approved remedy for this event code to apply facility-wide.
- 2) "The event when the state or EPA acknowledges in writing that the RCRA facility has completed construction of a facility's remedy that was designed to achieve long-term protection of human health and the environment, and that the remedy is fully functional as designed, whether or not final cleanup levels or other requirements have been achieved.

Remedy construction may also acknowledge the event where no remedy is constructed." See RCRAInfo Data Dictionary for complete event code definition. Each unit and AOC must have an approval of the remedy construction or approval of the decision that no physical construction is needed for this event code to apply facility-wide.

- 3) Date confirmed through TCEQ correspondence review.
- 4) Date obtained from RCRAInfo database.
- 5) Date obtained from facility correspondence.
- 6) Date obtained from TCEQ database.